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Substitute Specification

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SPECIFICATION"

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HIGH-PRESSURE DISCHARGE LAMP

RELATED APPLICATION

[0001] This application is based on Japanese Patent Application 2003-112351, and the contents thereof are incorporated in this application by reference.

BACKGROUND OF THE INVENTION

[0002] The present invention relates to a high-pressure discharge lamp. Specifically, the present invention relates to a high-pressure discharge lamp preferably used for lighting at such usages for high ceilings, stores, and streets.

[0003] Conventionally, high-pressure discharge lamps for such usage as high ceilings, stores, and streets. comprise a light emission tube made of quartz glass or ceramic, an outer tube, and wire frames made of a conductive material for supporting the light emission tube at the outer tube (for example, refer to U.S. Patent No. 6, 326, 721). Since the light emission tube of this kind of high-pressure discharge lamp is heated to a very high temperature during lighting, relieving the thermal stress generated in the light emission tube is critical for preventing the breakage of the light emission tube. U.S. Patent No. 6, 326, 721 discloses a structure where the stress due to the thermal expansion of the light emission tube during lighting is relieved by a coil provided at one end of the wire frame.

[0004] Further, there are other prior art arrangements for similarly preventing the breakage of the light emission tube. In such prior arts, a compressive stress latently exerts the material of the light emission tube in